

metbrief: 2014-02-10

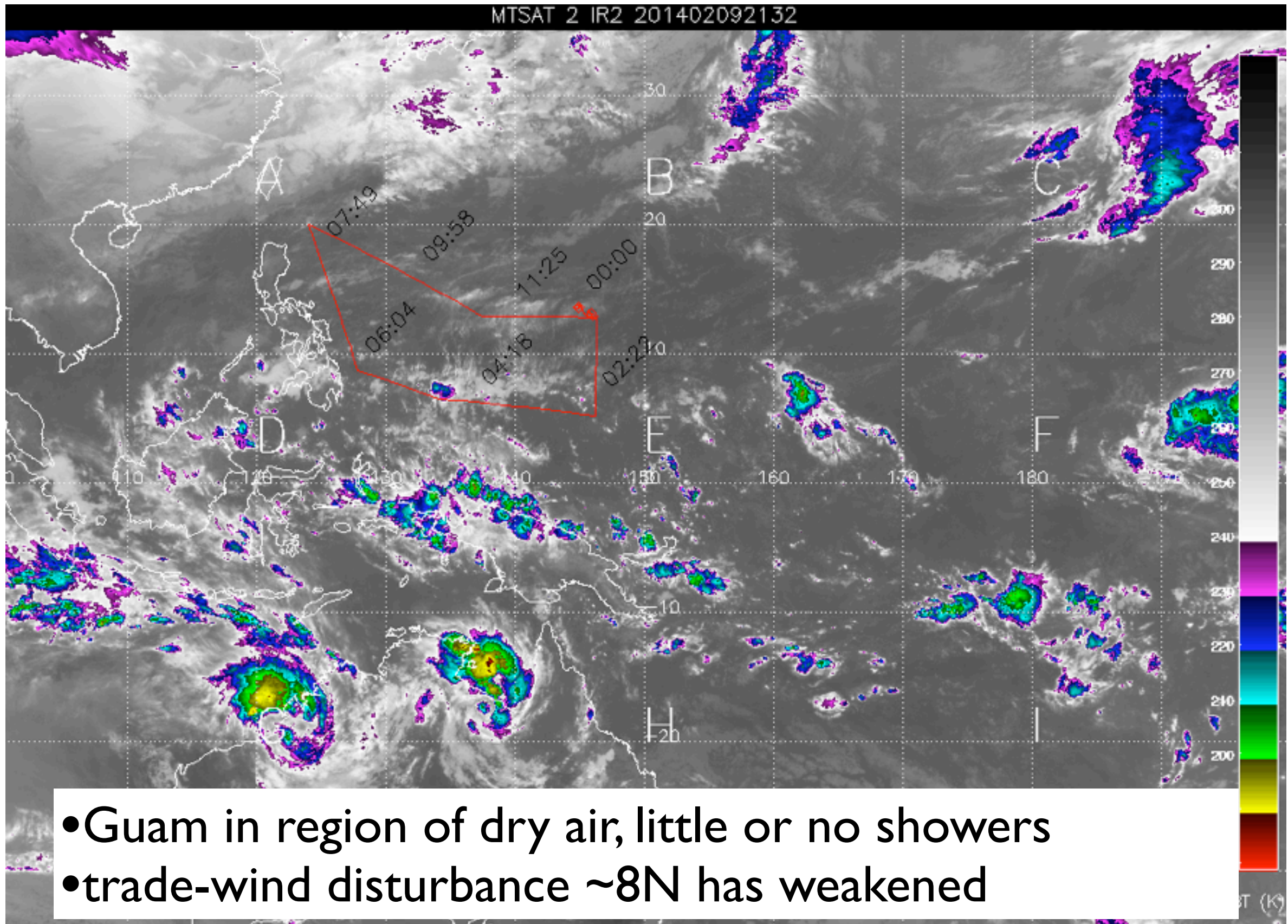
(next flight 2014-02-11 Tue)

- dry air and NE trade-winds prevail over Guam
- trade-wind disturbance (convective precip) south of ~10N has weakened compared to yesterday, but expected to strengthen again by midflight (10AM) Tue
- outlook: shear line (w/ isolated showers) forming and approaching Guam Wed PM through Fri

	wind	cld cover (base)	precip	
Tue takeoff (04AM)	5-10 knt ENE	few (2500 ft), scattered (2500 ft)	low prob	
midflight (10AM)	convective precip S-SW of Guam (2-9N, 125-145E), cld tops ≤ 50 kft			
landing (04PM)	5-10 knt E	few (2500 ft)	low prob	
Wed takeoff (04AM)	5-10 knt E	scattered (2500 ft)	low prob	
midflight (10AM)	convective precip S-SW of Guam (0-8N, 125-145E), cld tops ≤ 50 kft			
landing (04PM)	5-10 knt ENE	scattered (2500 ft)	isolated	850mb RH \uparrow

‘current’ condition:

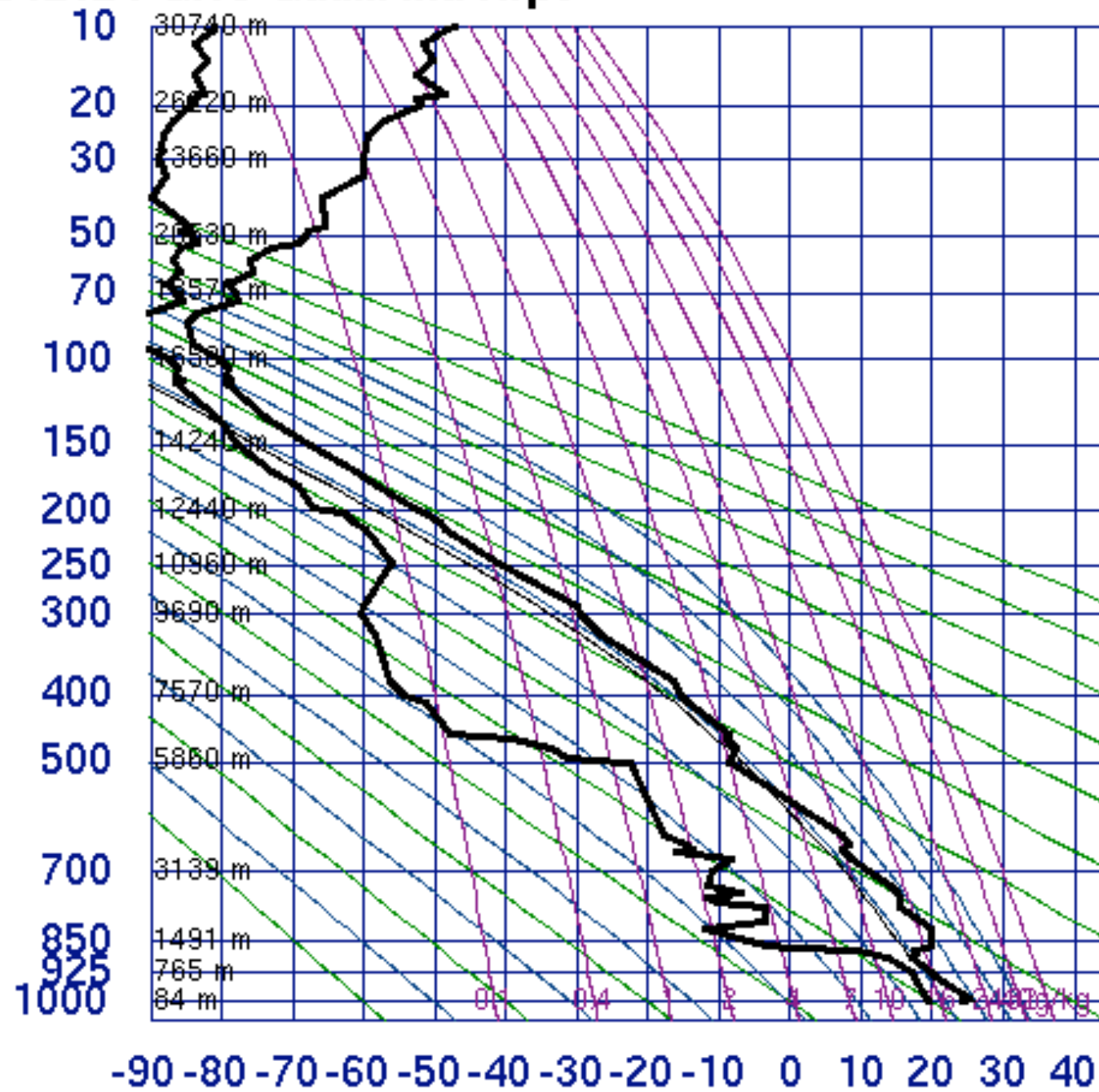
satellite IR imagery on 2014-02-09, ~21UTC
(02-10 Mon, ~07AM)



last night's condition:

soundings on 2014-02-09, 12UTC
(02-09 Sun, 10PM)

91212 PGAC Guam Intl Arpt



12Z 09 Feb 2014

University of Wyoming

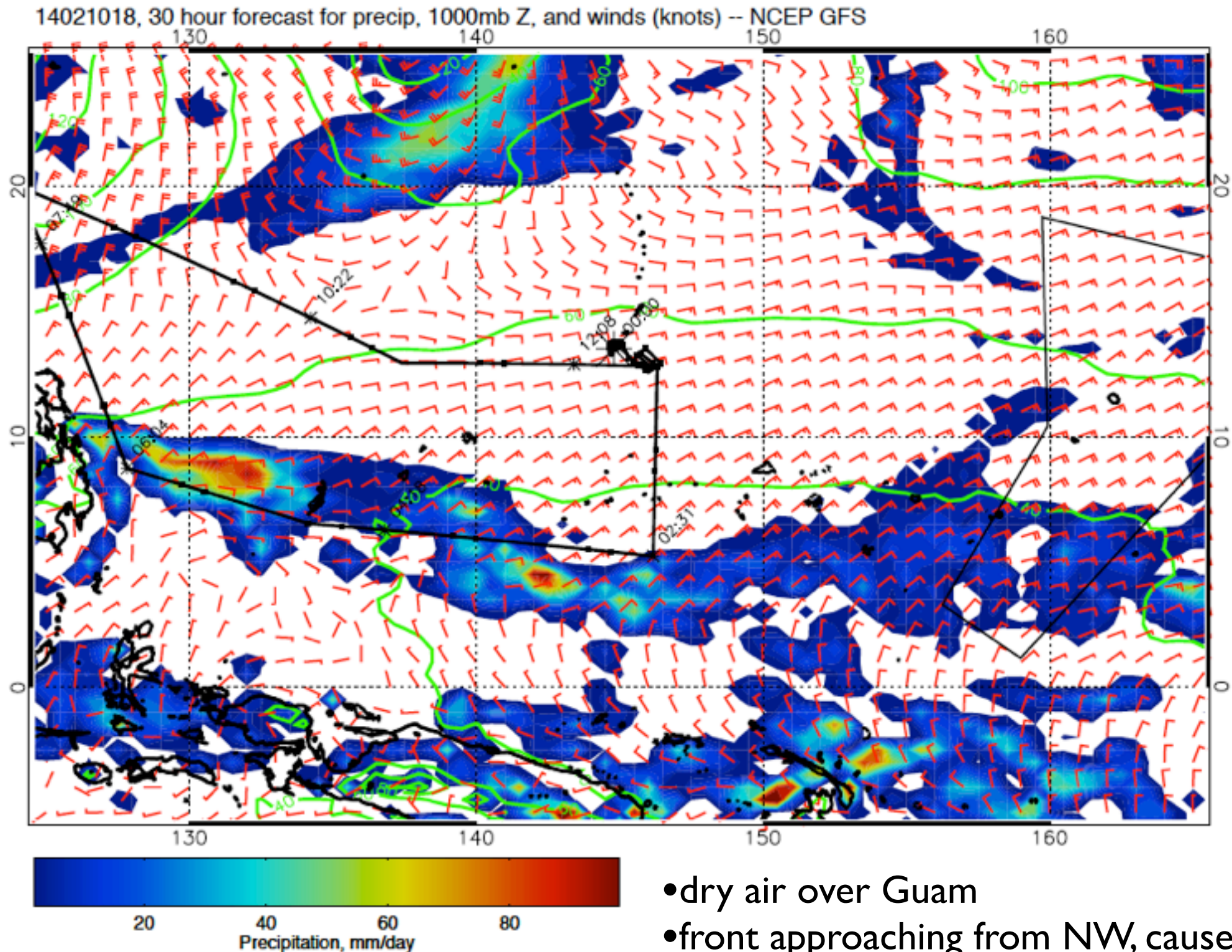
SLAT	13.48
SLON	144.79
SELV	76.00
SHOW	10.00
LIFT	-1.79
LFTV	-2.35
SWET	35.11
KINX	0.50
CTOT	2.50
VTOT	28.50
TOTL	31.00
CAPE	26.59
CAPV	48.05
CINS	-506.
CINV	-6.95
EQLV	486.7
EQTV	482.4
LFCT	537.9
LFCV	888.6
BRCH	2.82
BRCV	5.10
LCLT	290.6
LCLP	905.8
MLTH	299.0
MLMR	14.14
THCK	5776.
PWAT	25.90

•tropopause -84.5 degC
(188.5 K) at 17.9 km
(58.9 kft)

•dry atmosphere with
some low-level clouds

‘Tue take-off’ condition (GFS):

1000mb precip & winds on 2014-02-10, 18UTC (02-11 Tue, 04AM)

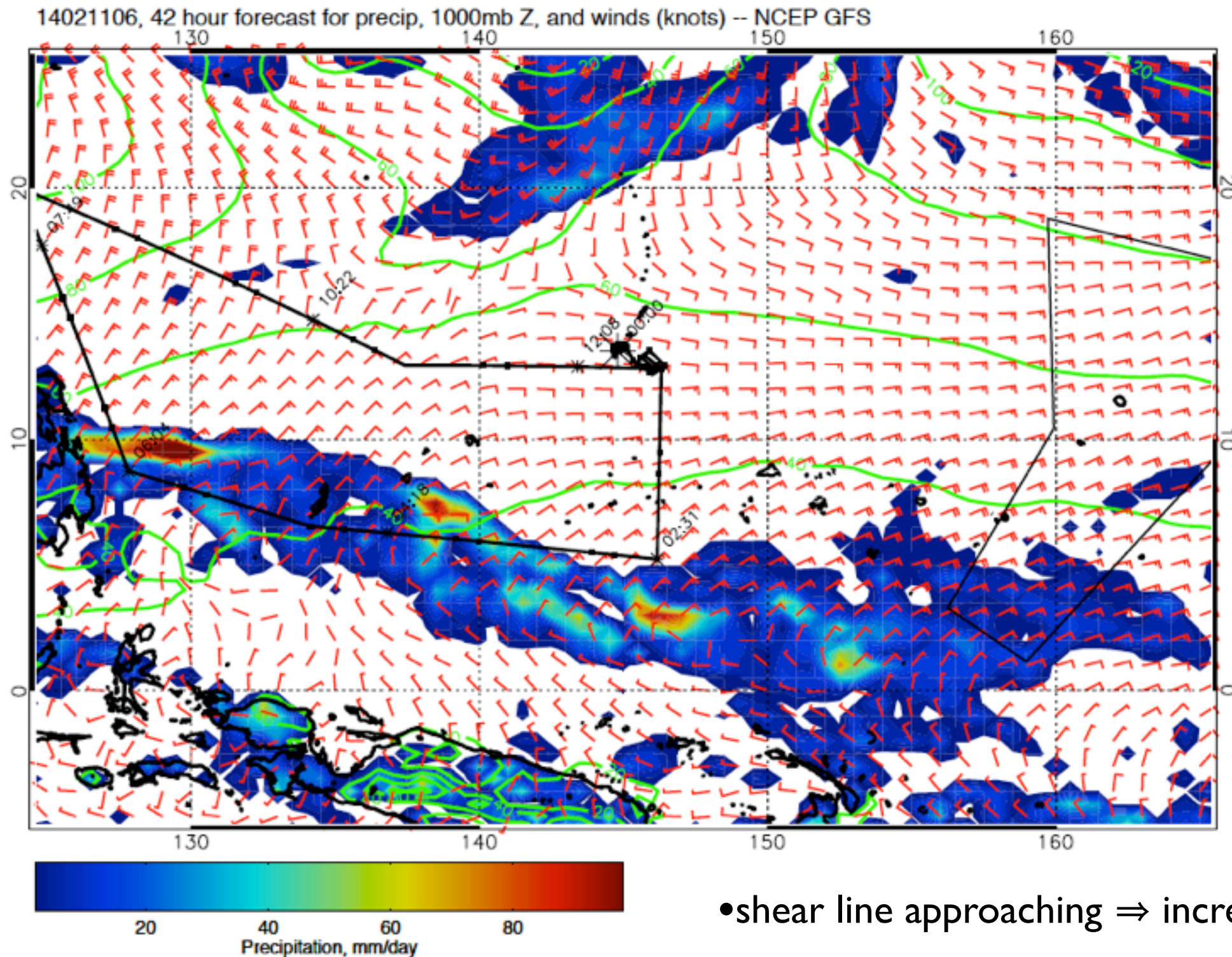


ENE
10 knt

- dry air over Guam
- front approaching from NW, causes change in wind direction from ENE (4AM) to E (10AM)

‘Tue landing’ condition (GFS):

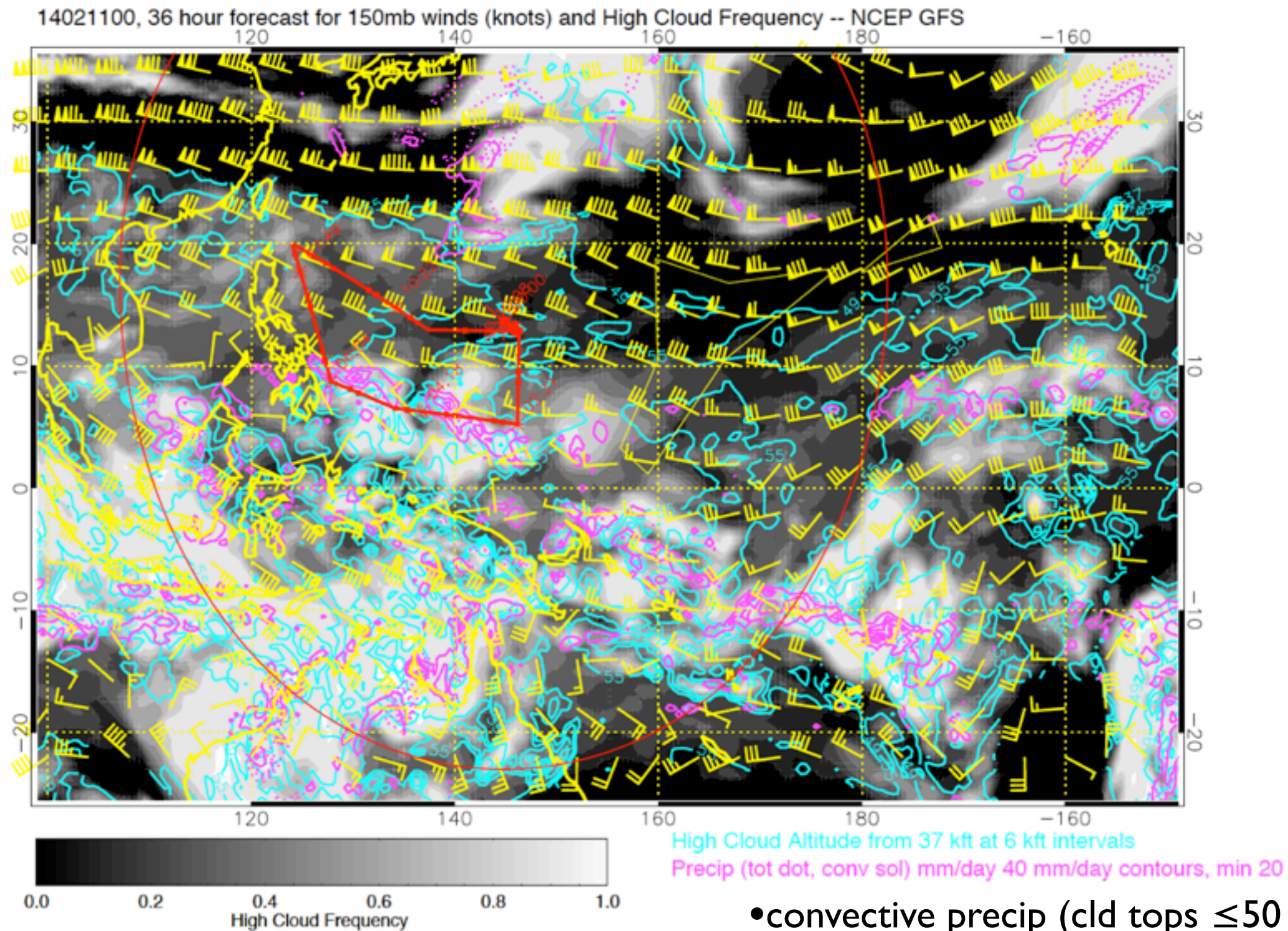
1000mb precip & winds on 2014-02-11, 06UTC
(02-11 Tue, 04PM)



E
10 knt

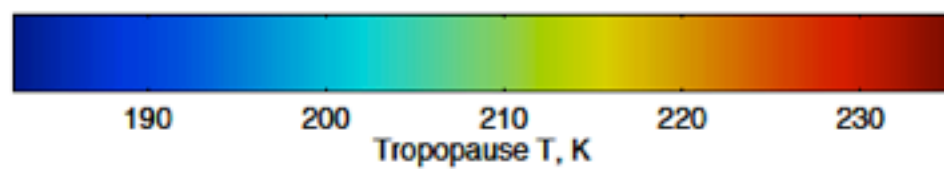
- shear line approaching \Rightarrow increasing cloud cover and isolated showers Wed PM through Fri

‘Tue midflight’ condition (GFS):
high clouds & 150mb winds on 2014-02-11, 00UTC
(02-11 Tue, 10AM)



- convective precip (cld tops ≤ 50 kft) along southern leg of flight track, gradually moves away from Guam in SW direction

tropopause T & altitude on 2014-02-11, 00UTC
(02-11 Tue, 10AM)



- 187.5K Isotherm 190K Isotherm
192.5K Isotherm 195K Isotherm